

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) A seed of soybean cultivar designated SG5030NRR, wherein a representative sample of seed of said cultivar was deposited under ATCC Accession No. ~~PTA-_____~~ No. PTA-7586.
2. (ORIGINAL) A soybean plant, or a part thereof, produced by growing the seed of claim 1.
3. (PREVIOUSLY PRESENTED) A tissue culture of cells produced from the plant of claim 2.
4. (PREVIOUSLY PRESENTED) A protoplast produced from the tissue culture of claim 3.
5. (PREVIOUSLY PRESENTED) The tissue culture of claim 3, wherein said cells of the tissue culture are produced from a plant part selected from the group consisting of leaf, pollen, embryo, cotyledon, hypocotyl, meristematic cell, root, root tip, anther, pistil, flower, seed, pod, and stem.
6. (CURRENTLY AMENDED) A soybean plant regenerated from the tissue culture of claim 3, wherein the regenerated plant has all the morphological and physiological characteristics of soybean cultivar SG5030NRR, and wherein a representative sample of seed of said cultivar was deposited under ATCC Accession No. ~~PTA-_____~~ No. PTA-7586.
7. (ORIGINAL) A method for producing an F1 hybrid soybean seed, comprising crossing the plant of claim 2 with a different soybean plant and harvesting the resultant F1 hybrid soybean seed.
- 8.-9. (CANCELED)
10. (PREVIOUSLY PRESENTED) A method for producing a male sterile soybean plant wherein the method comprises transforming the soybean plant of claim 2 with a nucleic acid molecule.

11. (ORIGINAL) A male sterile soybean plant produced by the method of claim 10.

12. (PREVIOUSLY PRESENTED) A method of producing an herbicide resistant soybean plant wherein the method comprises transforming the soybean plant of claim 2 with a transgene that confers herbicide resistance.

13. (ORIGINAL) An herbicide resistant soybean plant produced by the method of claim 12.

14. (PREVIOUSLY PRESENTED) The soybean plant of claim 13, wherein the transgene confers resistance to an herbicide selected from the group consisting of imidazolinone, sulfonylurea, glyphosate, glufosinate, L-phosphinothricin, triazine and benzonitrile.

15. (PREVIOUSLY PRESENTED) A method of producing an insect resistant soybean plant wherein the method comprises transforming the soybean plant of claim 2 with a transgene that confers insect resistance.

16. (ORIGINAL) An insect resistant soybean plant produced by the method of claim 15.

17. (ORIGINAL) The soybean plant of claim 16, wherein the transgene encodes a *Bacillus thuringiensis* endotoxin.

18. (PREVIOUSLY PRESENTED) A method of producing a disease resistant soybean plant wherein the method comprises transforming the soybean plant of claim 2 with a transgene that confers disease resistance.

19. (ORIGINAL) A disease resistant soybean plant produced by the method of claim 18.

20. (PREVIOUSLY PRESENTED) A method of producing a soybean plant with modified fatty acid metabolism or modified carbohydrate metabolism comprising transforming the soybean plant of claim 2 with a transgene encoding a protein selected from the group consisting of fructosyltransferase, levansucrase, alpha-amylase, invertase, and starch branching enzyme or encoding an antisense of stearyl-ACP desaturase.

21. (PREVIOUSLY PRESENTED) A soybean plant having modified fatty acid metabolism or modified carbohydrate metabolism produced by the method of claim 20.

22. (CURRENTLY AMENDED) A soybean plant, or part thereof, having all the physiological and morphological characteristics of soybean cultivar SG5030NRR, and wherein a representative sample of seed of said cultivar was deposited under ATCC Accession No. PTA-_____ No. PTA-7586.

23. (CURRENTLY AMENDED) A method of introducing a desired trait into soybean cultivar SG5030NRR wherein the method comprises:

- (a) crossing SG5030NRR plants grown from SG5030NRR seed, representative seed of which was deposited under ATCC Accession No. PTA-_____ No. PTA-7586 with plants of another soybean cultivar that comprise a desired trait to produce F1 progeny plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance, disease resistance and waxy starch;
- (b) selecting one or more F1 progeny plants that have the desired trait to produce selected F1 progeny plants;
- (c) crossing the selected progeny plants with the SG5030NRR plants to produce backcross progeny plants;
- (d) selecting for backcross progeny plants that have the desired trait and physiological and morphological characteristics of soybean cultivar SG5030NRR listed in Table 1 to produce selected backcross progeny plants; and
- (e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of soybean cultivar SG5030NRR listed in Table 1.

24. (PREVIOUSLY PRESENTED) A plant produced by the method of claim 23, wherein the plant has the desired trait and all of the physiological and morphological characteristics of soybean cultivar SG5030NRR listed in Table 1.

25. (PREVIOUSLY PRESENTED) The plant of claim 24, wherein the desired trait is herbicide resistance and the resistance is conferred to an herbicide selected from the group consisting of imidazolinone, sulfonyleurea, glyphosate, glufosinate, L-phosphinothricin, triazine and benzonitrile.

26. (PREVIOUSLY PRESENTED) The plant of claim 24, wherein the desired trait is insect resistance and the insect resistance is conferred by a transgene encoding a *Bacillus thuringiensis* endotoxin.

27. (PREVIOUSLY PRESENTED) The plant of claim 24, wherein the desired trait is male sterility and the trait is conferred by a nucleic acid molecule.

28. (CURRENTLY AMENDED) A method of modifying fatty acid metabolism or modifying carbohydrate metabolism of soybean cultivar SG5030NRR wherein the method comprises:

- (a) crossing SG5030NRR plants grown from SG5030NRR seed, wherein a representative sample of seed was deposited under ATCC Accession No. ~~PTA-_____~~ No. PTA-7586, with plants of another soybean cultivar that comprise a nucleic acid molecule encoding an enzyme selected from the group consisting of phytase, fructosyltransferase, levansucrase, alpha-amylase, invertase and starch branching enzyme or encoding an antisense of stearyl-ACP desaturase;
- (b) selecting one or more F1 progeny plants that have said nucleic acid molecule to produce selected F1 progeny plants;
- (c) crossing the selected progeny plants with the SG5030NRR plants to produce backcross progeny plants;
- (d) selecting for backcross progeny plants that have said nucleic acid molecule and physiological and morphological characteristics of soybean cultivar SG5030NRR listed in Table 1 to produce selected backcross progeny plants; and
- (e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise said

nucleic acid molecule and have all of the physiological and morphological characteristics of soybean cultivar SG5030NRR listed in Table 1.

29. (PREVIOUSLY PRESENTED) A plant produced by the method of claim 28, wherein the plant comprises the nucleic acid molecule and has all of the physiological and morphological characteristics of soybean cultivar SG5030NRR listed in Table 1.

30. (PREVIOUSLY PRESENTED) A protoplast produced from the plant of claim 2.